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**“जानने का अधिकार, जीने का अधिकार”**

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

**“पुराने को छोड़ नये के तरफ”**

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11253 (1985): Swing Derricks [TED 18: Inland, Harbour Crafts and Fishing Vessels]

**“ज्ञान से एक नये भारत का निर्माण”**

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



**“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”**

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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Indian Standard

## SPECIFICATION FOR SWING DERRICKS

**1. Scope** — Specifies types, main dimensions material and technical requirements for swing derricks used in inland vessels of all types and purposes.

**2. Types** — Depending on the method of fastening the pillar, swing derricks are divided into following two types:

Type A — with guys, and

Type B — without guys.

**3. Dimensions** — The main dimensions of swing derricks shall be as indicated in Fig. 1 read with Table 1.

**4. Material** — The jib and the pillar shall be made of weldable steel conforming to IS : 226-1975 'Specification for structural steel (standard quality) (fifth revision)'.

### 5. Technical Requirements

**5.1** The jib shall be connected with the pillar by means of swivel.

**5.2** Two handles shall be welded at the free end of the jib for users to hold while on the jib.

**5.3** The swing derricks shall be swung, held in the working position and returned to the initial position with the help of two hauling lines fixed on an eye in the middle of the jib. The free ends of these lines shall be fastened to the cleat at the base of the jib.

**5.4** The load at the end of the jib shall not exceed 1 kN. Oscillation of the structure shall be avoided as far as possible.

**5.5** All welds shall be watertight.

**5.6** The jib and the pillar shall be provided with drainage holes.

**5.7** The free ends of the jib and the pillar shall be plugged with covering plates.

**5.8** The eyes of the cables shall be reinforced with thimbles.

### 6. Designation

**6.1** Swing derricks shall be designated by the nominal size of jib and number of this standard.

*Example :*

A swing derrick having jib of nominal size 8·5 m shall be designated as:

Swing Derrick 8·5 IS : 11253

### 7. Marking

**7.1** The swing derricks may bear its designation and manufacturer's name or trade-mark at an appropriate place.

**7.1.1 ISI Certification Mark** — The details are available with the Indian Standards Institution.

TABLE 1 DIMENSIONS OF SWING DERRICKS

(Clause 3 and Fig. 1)

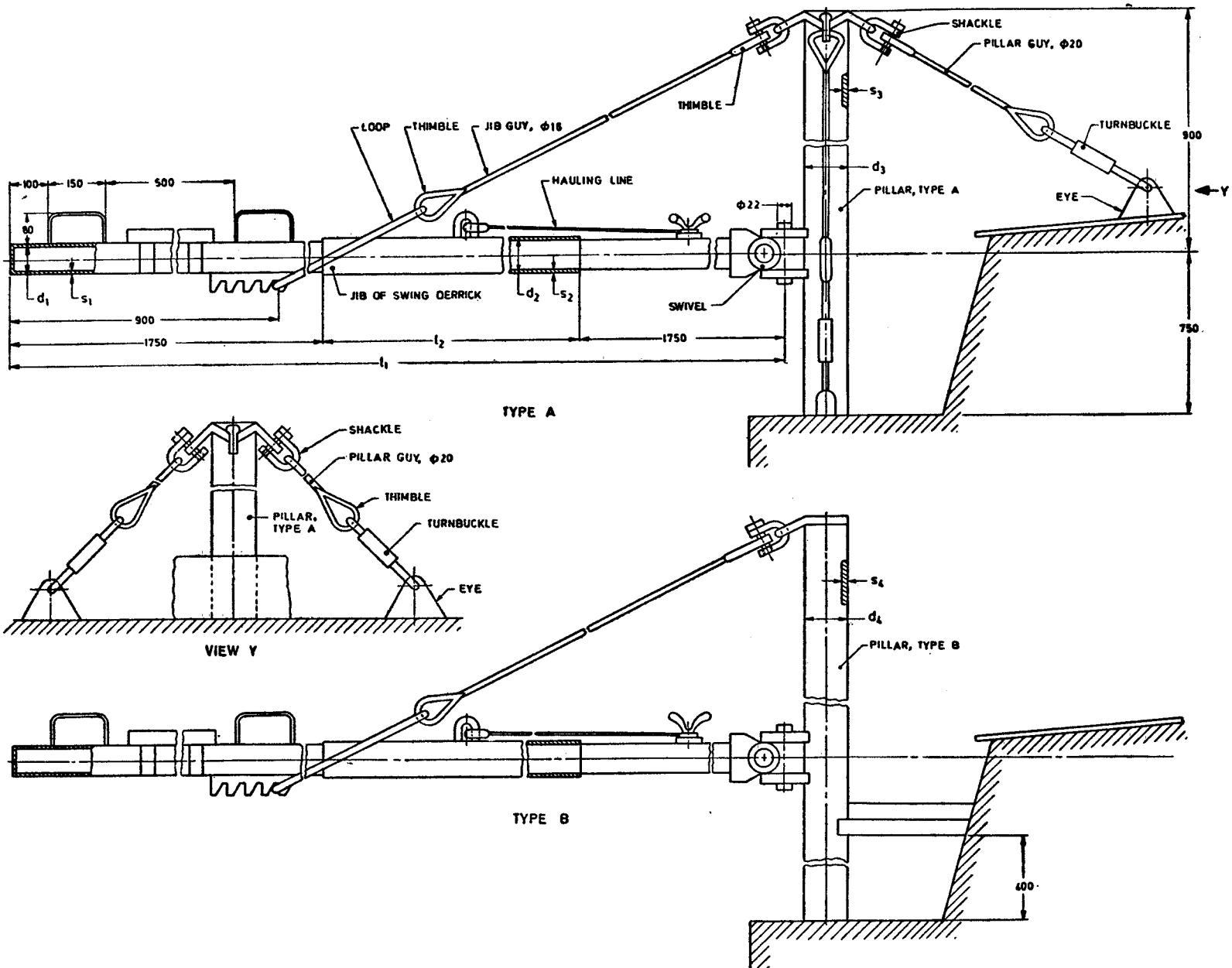
All dimensions in millimetres.

Nominal Size of Jib m	$d_1 \times s_1$	$d_2 \times s_2$	$d_3 \times s_3$	$d_4 \times s_4$	$l_1$	$l_2$
7·0	76×4	89×4	102×6	114×9	7 000	3 500
8·5	89×4	102×6	114×7	133×9	8 500	5 000
10·0	102×5	114×6	133×7	159×9	10 000	6 500

### EXPLANATORY NOTE

The swing derricks are used for individual landing of crew members ashore without using gangways or boats when the vessel is close to the bank.

While preparing this standard considerable assistance has been derived from ISO 4085-1979 'Shipbuilding—Inland navigation—Swing derricks' issued by the International Organization for Standardization (ISO).



All dimensions in millimetres.

FIG. 1 DIMENSIONS OF SWING DERRICK